

METHOD FOR THE RELATIVE DETERMINATION OF  
PHYSICO-CHEMICAL PROPERTIES

Joos et al.

Appl. No.: Unknown

Atty Docket: WWELL78.007C1

$$[A_b] = \frac{[d-A_b - A_b]}{[d-A_b] K_{d-A_b-A_b}} \quad \text{eq. (1)}$$

$$K_{A_b-A_g} = \frac{[A_g - A_b]}{[A_b] [A_g]} \quad \text{eq. (2)}$$

$$= \frac{[A_g - A_b] [d-A_b] K_{d-A_b-A_b}}{[A_g] [d-A_b - A_b]} \quad \text{eq. (3)}$$

$$= \frac{[A_g - A_b]}{[d-A_b - A_b]} \cdot \frac{[d-A_b]}{[A_g]} \cdot K_{d-A_b-A_b}$$

$$= \frac{v_1}{v_2} \cdot \text{const}$$

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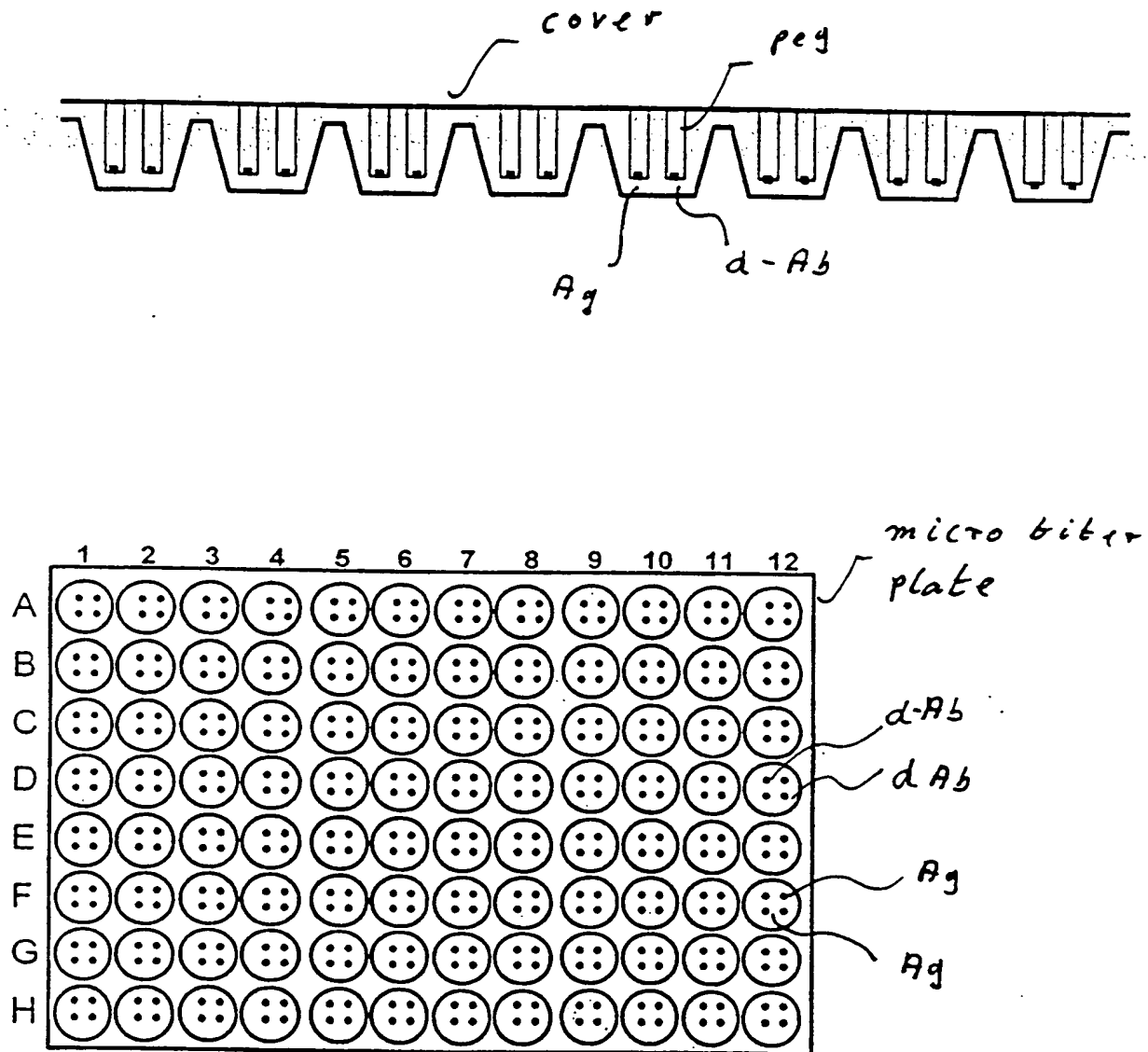


Fig. 2

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Antibody	Antigen-Antibody product measured in relative integrated spot values V1	Antibody concentration, measured in relative integrated spot values V2	Relative Affinity expressed as: V1/V2	Dissoziation konstant determined with surface plasmon resonance technology (BIA-CORE)
1	15,4	0,67	23	86 nM
2	58,5	1,35	43,3	11 nM
3	37,2	0,25	148,8	6,3 nM
4	5,8	8,6	0,7	250 nM

Fig. 3

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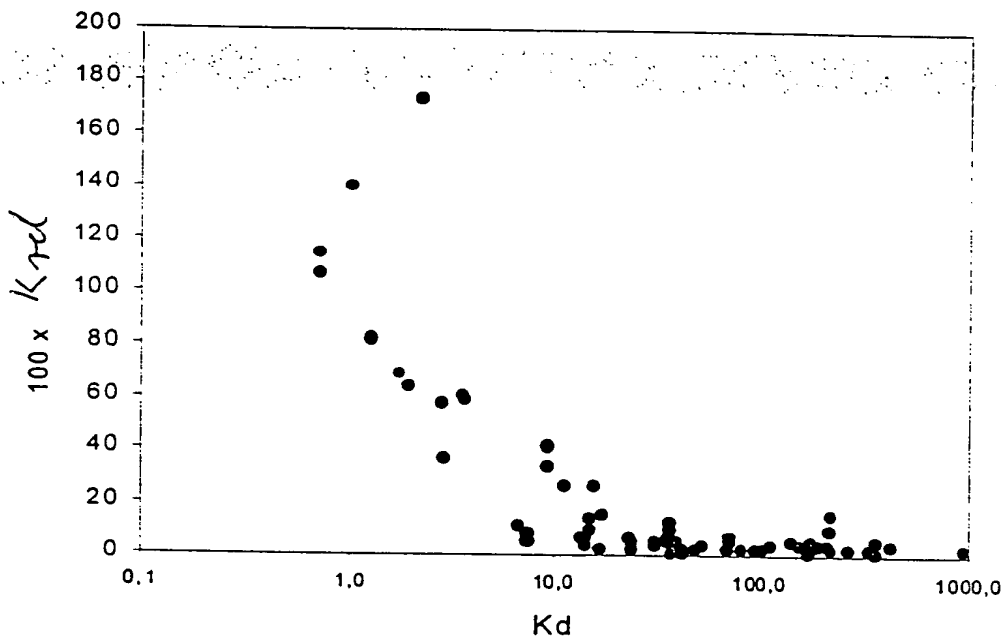


Fig 4